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FIREDOC VOCABULARY LIST, 4TH EDITION

Nora H. Jason

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FIREDOC VOCABULARY LIST, 4TH EDITION

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Building and Fire Research Laboratory
National Institute of Standards and Technology
Gaithersburg, MD 20899

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U.S. Department of Commerce

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Introduction

Fire Research Information Services (FRIS), established in 1971, maintains a collection of over 50,000 national and international documents on fire research representing the programmatic interests of the BFRL fire research staff. FIREDOC is the on-line bibliographic database of this collection.

The *FIREDOC Vocabulary List*, now in its fourth edition, contains over 5,000 keywords representing the subject matter of the documents included in the FIREDOC bibliographic database. The *List* was originally developed in 1975 as a tool to be used for searching a small fire safety database developed for NASA/ASRDI (National Aeronautics and Space Administration/Aerospace Safety Research and Data Institute). Since then, the *List* has been updated and expanded to reflect current national and international fire research interests and to reflect shifts in the acceptance and/or usage of technical concepts.

The keywords in the *List* are in a natural language format. On occasion, subtle differences in the meaning of some keywords require a more descriptive term. This has been accomplished by including the more descriptive term in parentheses.

Symbol Notation

The symbols which precede some of the words mean:

- = DO NOT USE this keyword.
- USE = Use this keyword.
- UF = Used For. Use the main keyword.
- # = Reflects a generic keyword. Use if most appropriate for the document; use a more specific keyword if necessary.
- RT = Related Term. These keywords are conceptually different.
- SA = See Also. These keywords are closely related to one another.
- BT = Broader Term. These keywords represent a generically broader class than the main keyword.
- NT = Narrower Term. These keywords represent a generically narrower class than the main keyword.

The Research Laboratory for the Study of the Human Mind, established in 1950, has been a leading center for the study of the human mind. The laboratory has been directed by Dr. [Name] and has been a leading center for the study of the human mind.

The laboratory has been a leading center for the study of the human mind. The laboratory has been a leading center for the study of the human mind. The laboratory has been a leading center for the study of the human mind.

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A

AATCC 34-1966	ACCELERANTS
AATCC 34-1969	ACCEPTABILITY
ABANDONMENT	•ACCEPTANCE USE ACCEPTABILITY
ABEL FLASH POINT APPARATUS	ACCEPTANCE CRITERIA
ABLATION	•ACCEPTANCE INSPECTION USE VERIFICATION INSPECTION
•ABLATION HEAT USE HEAT OF ABLATION	•ACCEPTANCE SAMPLING USE ACCEPTABILITY AND SAMPLING
ABLATIVE MATERIALS	ACCEPTANCE TESTS SA ACCEPTABILITY
ABNORMAL PSYCHOLOGY	•ACCIDENT ANALYSES USE ACCIDENT INVESTIGATIONS
ABRASION RESISTANCE	ACCIDENT INVESTIGATIONS
ABRASION RESISTANT COATINGS	ACCIDENT PREVENTION
•ABRASIVE COATINGS USE ABRASIVES	ACCIDENT PRONENESS
ABRASIVES	ACCIDENT STATISTICS
ABS PLASTICS	ACCIDENTS
•ABSOLUTE GRAVITY USE GRAVITY	ACCOMMODATION COEFFICIENTS
ABSOLUTE INSTABILITY	ACCURACY
ABSORBERS (EQUIPMENT)	ACCURACY ASSESSMENT
ABSORBERS (MATERIALS)	ACETAL COMPOUNDS
ABSORPTANCE	ACETALDEHYDE
#ABSORPTION	ACETALS
ABSORPTION COEFFICIENT SA ABSORPTIVITY	ACETATES
ABSORPTION CROSS SECTIONS	•ACETATION USE ACETYLATION
•ABSORPTION HEAT USE HEAT OF ABSORPTION	ACETIC ACID
•ABSORPTIVE INDEX USE ABSORPTIVITY	ACETONE
ABSORPTIVITY	ACETYLATION

ACETYLENE	ADSORPTION
ACID RESISTANCE	•ADSORPTION HEAT USE HEAT OF ADSORPTION
#ACIDS	ADSORPTIVITY
•ACOUSTIC COMBUSTION USE COMBUSTION STABILITY	ADULTS
ACOUSTIC MEASUREMENT	ADVECTION
ACOUSTIC PROPERTIES	AERIAL EXPLOSIONS
ACOUSTIC SENSORS	AERIAL PHOTOGRAPHS
ACROLEINS	AERODYNAMIC HEAT TRANSFER
ACRYLAMIDES	AERODYNAMIC HEATING
ACRYLATES	AERODYNAMICS
ACRYLIC RESINS	AEROELASTICITY
ACRYLICS	AEROGELS
•ACRYLONITRILE-BUTADIENE-STYRENE USE ABS PLASTICS	AEROSOL AGGLOMERATION
ACRYLONITRILES	AEROSOL COAGULATION
ACTIVATED CARBON	AEROSOL GENERATORS
ACTIVATION ENERGY	AEROSOLS
•ACTIVATION HEAT USE ACTIVATION ENERGY	AEROSPACE ACCIDENTS
ACUTE TOXICITY	AEROSPACE ENGINEERING
ADD ON	AEROSPACE ENVIRONMENTS
ADDITION RESINS	•AEROSPACE GROUND EQUIPMENT USE GROUND SUPPORT EQUIPMENT
ADDITIVES	AEROSPACE INDUSTRY
ADHESION	AEROSPACE MEDICINE
ADHESIVES	AEROSPACE SAFETY
ADIABATIC COMPRESSION	•AEROTHERMOCHEMISTR Y USE AEROTHERMODYNAMICS AND THERMOCHEMISTR Y
ADIABATIC EXPLOSIONS	AEROTHERMODYNAMICS
ADIABATIC FLAMES	AEROTHERMOELASTICITY
ADIABATIC FLOW	AEROZINES
ADIABATIC HEATING	

AEROZINE 50
 SA UNSYMMETRICAL DIMETHYLHYDRAZINE

- AFTERBURNERS
 USE AFTERBURNING

AFTERBURNING

- AFTERCOOLERS
 USE COOLERS

AFTERGLOWS

AFTERWINDS

AGENA ROCKET VEHICLES

#AGENTS

AGGLOMERATES

AGGREGATES
 RT CONCRETES

AGING (MATERIALS)

AGING (METALLURGY)

AGRICULTURAL PRODUCTS

AGRICULTURE

AIR

- AIR BLASTS
 USE AERIAL EXPLOSIONS

AIR CIRCULATION

AIR CLEANING SYSTEMS

AIR COMPRESSORS

AIR CONDITIONING

AIR CONDITIONING EQUIPMENT

AIR CONDUCTIVITY

- AIR CONTENT
 USE AIR ENTRAINMENT

AIR CURRENTS

AIR CURTAINS

AIR DUCTS

AIR ENTRAINMENT

AIR FLOW

- AIR/FUEL RATIO
 USE FUEL/AIR RATIO
- AIR/GAS MIXTURES
 USE GAS/AIR MIXTURES

AIR INFLATED STRUCTURES

AIR LEAKAGE

AIR MOVEMENT

- AIR PERMEABILITY
 USE PERMEABILITY

AIR POLLUTION

AIR POLLUTION CONTROL EQUIPMENT

AIR PURIFICATION

AIR SAMPLING

- AIR SPEED
 USE AIR VELOCITY

AIR SUPPORTED STRUCTURES

AIR TANKERS

AIR TEMPERATURE

AIR TIGHTNESS

AIR TRAFFIC CONTROL

AIR TURBULENCE

AIR VELOCITY

AIRBORNE COMPUTERS

AIRBORNE EQUIPMENT

AIRBORNE SAMPLING

#AIRCRAFT

AIRCRAFT ACCIDENTS

- AIRCRAFT BREATHING APPARATUS
 USE BREATHING APPARATUS
- AIRCRAFT CABINS
 USE AIRCRAFT COMPARTMENTS

AIRCRAFT CARRIERS

AIRCRAFT CERTIFICATION
AIRCRAFT COLLISIONS
AIRCRAFT COMPARTMENTS
AIRCRAFT CRASH EQUIPMENT
AIRCRAFT ENGINE OILS
AIRCRAFT ENGINES
AIRCRAFT FIRES
AIRCRAFT FUEL SYSTEMS
AIRCRAFT FUEL TANKS
AIRCRAFT FUELS
AIRCRAFT HANGARS
AIRCRAFT HAZARDS
AIRCRAFT HYDRAULIC FLUIDS
AIRCRAFT HYDRAULIC SYSTEMS
AIRCRAFT INTERIORS
AIRCRAFT LANDING
AIRCRAFT PANELS
AIRCRAFT PERFORMANCE
AIRCRAFT REPAIR
AIRCRAFT RESCUE
AIRCRAFT SAFETY
AIRCRAFT STRUCTURES
AIRFRAMES
•AIR PERMEABILITY
 USE PERMEABILITY
AIRMAT
AIRPORTS
AIRWORTHINESS
ALARM RESPONSES
•ALARM SYSTEMS
 USE FIRE ALARM SYSTEMS

ALBEDO
ALCOHOL INTOXICATION
ALCOHOLS
ALDEHYDES
ALGORITHMS
ALIPHATIC ACIDS
ALIPHATIC COMPOUNDS
ALKALI CHLORATES
ALKALI HALIDES
#ALKALI METAL COMPOUNDS
ALKALI METAL SALTS
ALKALI METALS
ALKALI PEROXIDES
ALKALI SILICATES
ALKALINE EARTH METALS
ALKANES
ALKENES
ALKENYL RESINS
ALKYD RESINS
ALKYL ESTERS
•ALKYL HALIDES
 USE HALOKANES
ALKYLATION
ALKYNES
ALLERGIC SENSITIVITY
#ALLOYS
ALPHA CELLULOSE
ALTERNATIVE DESIGN
ALTITUDE
ALUMINA TRIHYDRATE

ALUMINIZED FABRICS
ALUMINUM
ALUMINUM ALLOYS
ALUMINUM CHLORIDES
ALUMINUM COMPOUNDS
ALUMINUM HYDRIDES
ALUMINUM NITRATES
ALUMINUM OXIDES
ALUMINUM PERCHLORATES
ALUMINUM SILICATES
ALUMINUM SULFATES
AMAL TYPE FLAME ARRESTORS
AMBULANCES
AMBULATORY PEOPLE
AMIDES
AMINES
AMINO BENZENES
AMINO RESINS
AMMONIA
AMMONIUM BROMIDES
AMMONIUM CHLORIDES
AMMONIUM COMPOUNDS
AMMONIUM DIHYDROGEN PHOSPHATE
AMMONIUM NITRATES
AMMONIUM PERCHLORATES
AMMONIUM PHOSPHATES
AMMONIUM SULFAMATES
AMMONIUM SULFATES
AMMUNITION
AMUSEMENT FACILITIES

ANALOG COMPUTERS
#ANALYSES
ANALYTICAL STUDIES
ANECHOIC CHAMBERS
ANEMOMETERS
ANESTHETIC GASES
ANHYDROGLUCOSES
ANHYDROUS FUELS
ANIDE (TRADEMARK)
ANIMALS
ANILINE
ANOXIA
ANSI A17.1
SA ELEVATORS (LIFTS)
ANSI A119.1
ANSI Z88.5
SA BREATHING APPARATUS
ANTIFOAMING AGENTS
ANTIFREEZES
ANTIICING ADDITIVES
ANTIMISTING FUELS
ANTIMONY COMPOUNDS
ANTIMONY OXIDES
ANTISMOKE EQUIPMENT
ANTISOCIAL BEHAVIOR
APARTMENTS
APO-THPC
APOLLO PROJECT
APOLLO SPACECRAFT
APOLLO 204

•APPARATUS USE EQUIPMENT	ASHES
•APPAREL USE GARMENTS	ASPHALT
APPLIANCES	ASPHYXIA
APPLICATION DENSITIES	ASPIRATED HOT FILMS
APPLICATION RATE	#ASSEMBLIES
AQUEOUS FILMS	ASSESSMENTS
AQUEOUS FOAMS	ASTM D635
ARAMIDS	ASTM D757
•ARC IMAGING FURNACE USE ELECTRIC ARC FURNACES	ASTM D1689
ARC LAMPS	ASTM D1692
ARCHITECTS	ASTM D2843
ARCHITECTURE	ASTM D2859
ARGON	ASTM D2863
ARMORED PERSONNEL CARRIERS	ASTM E69
AROMATIC ALCOHOLS	ASTM E84
•AROMATIC BROMIDES USE AROMATIC COMPOUNDS	ASTM E119
AROMATIC COMPOUNDS	ASTM E152
AROMATIC NYLON	ASTM E162
ARSON	ASTM E648
ARSON LABORATORY	ASTM E659
ARSONISTS	ASTM E662
ART GALLERIES	ASTM E906
ARTIFICIAL INTELLIGENCE	ASTM STANDARDS
•ARTIFICIAL RESPIRATION USE RESUSCITATION	ASTRO VELCRO
ASA-3 FUEL ADDITIVE	ASYMPTOTIC METHODS
ASBESTOS	ATMOSPHERE CONTAMINATION CONTROL
ASBESTOS CEMENT BOARD	•ATMOSPHERE POLLUTION USE AIR POLLUTION
	#ATMOSPHERES
	ATMOSPHERIC COMPOSITION

ATMOSPHERIC CONDENSATION

ATMOSPHERIC CONVECTION

•ATMOSPHERIC IMPURITIES
USE AIR POLLUTION

ATMOSPHERIC PRESSURE

ATMOSPHERIC TRANSMISSIVITY

ATMOSPHERIC TURBULENCE

ATOMIC STRUCTURE

•ATOMIZATION
USE ATOMIZING

ATOMIZERS

ATOMIZING

ATRIA

•ATRIUMS
USE ATRIA

ATTENUATION

ATTITUDE (INCLINATION)

ATTITUDES

AUDIOVISUAL COMMUNICATIONS

AUDITORY PERCEPTION

AUDITORY STIMULATION

AUTISM

•AUTO-OXIDATION
USE AUTOXIDATION

AUTOCATALYTIC REACTIONS

AUTOIGNITION

AUTOIGNITION TEMPERATURE

AUTOIGNITION TEMPERATURE TESTS

AUTOMATIC DATA PROCESSING

•AUTOMATIC DETECTORS
USE FIRE DETECTORS

AUTOMOBILE ACCIDENTS

AUTOMOBILE FIRES

AUTOMOBILES

AUTOMOTIVE FUELS

AUTOPSY

AUTOXIDATION

AV GAS

AV GAS 115/145

•AV PIN
USE JET FUELS

•AV TAG
USE JP-4 JET FUEL

•AV TUR
USE JP-1 JET FUEL

•AVCAT
USE AIRCRAFT FUELS

AVCERAM RS

•AVIATION FUELS
USE AIRCRAFT FUELS

•AVIATION MEDICINE
USE AEROSPACE MEDICINE

AXIAL FLOW

AXISYMMETRIC JETS

AZIDES (ORGANIC)

B

B-25 AIRCRAFT	BEDDING
B-58 AIRCRAFT	BEDROOMS
BACKDRAFT	BEDS (FURNITURE)
BACKFIRES	BEHAVIOR
BAFFLES	BEHAVIOR MODELS
•BAKING SODA USE SODIUM BICARBONATE	BELLS
BALANCE BEAMS	BELT CONVEYORS
BALL BEARINGS	BELTS
BANKS (BUILDINGS)	BENDING
BAREX (TRADEMARK)	BENZENE
BARGES	BENZENESULFONIC ACID
BARIUM	BENZHYDRYLATION
BARIUM CHLORIDES	BENZONITRILE
BARNS	BENZYL ALCOHOLS
BARRIER ANALYSIS	BERTHING COMPARTMENTS SA SHIPS
BARRIERS	BERYLLIUM
BASE HEATING	BERYLLIUM HYDRIDE
BASES (CHEMICAL)	BETA FIBERGLAS
BASIC (PROGRAMMING LANGUAGE)	BIBLIOGRAPHIES
•BATTERIES USE ELECTRIC BATTERIES	BIMOLECULAR REACTIONS
BATTING	BINDERS
•BCF USE BROMOCHLORODIFLUOROMETHANE SA HALON 1211	BIODEGRADABILITY
#BEAMS	#BIOLOGY
BEARINGS	BIOT METHOD
BECKMAN GC-4 GAS CHROMATOGRAPH	BIPHENYL
	•BIPROPELLANTS USE LIQUID ROCKET PROPELLANTS

BISMUTH	BOEING 737 AIRCRAFT
BITUMENS	BOEING 747 AIRCRAFT
BLACK BODY	BOILERS
BLADDER FUEL TANKS	•BOILING LIQUID EXPANDING VAPOR EXPLOSION USE BLEVE
BLANKETS	BOILING POINT
BLAST EFFECTS	BOILOVER
BLAST HAZARDS	BOLOMETERS
BLAST INJURIES	BOMB FUSES
BLAST PRESSURES	BOMBS (ORDNANCE)
BLAST RESISTANT STRUCTURES	BONDING
BLASTS	#BONDS
BLEACHING AGENTS	BOOSTERS
BLENDS (FIBERS)	BOOTS
BLEVE	BORANES
BLINDNESS	BORAX
BLISTERS	BORIC ACID
BLOCKING	BORON
BLOOD	BORON COMPOUNDS
BLOOD CYANIDE	BORON NITRIDES
BLOOD PRESSURE	BOUNDARY LAYER COMBUSTION
BLOW TORCHES	BOUNDARY LAYERS
BLOWOFF	BOUSSINESQ APPROXIMATION
BLOWOUT FIRES	•BOYLES LAW USE IDEAL GAS LAW
BLOWOUT VELOCITY	•BRANCH LINE USE SPRINKLER SYSTEMS
BLUNT BODIES	•BRANCH PIPES USE NOZZLES
BOARD AND CARE HOMES	BRANCHED CHAIN EXPLOSIONS
BOARDS	BRANCHED CHAIN REACTIONS
BOATS	
BOEING 707 AIRCRAFT	
BOEING 727 AIRCRAFT	

BRAZIL
 BREAKAWAY VALVES
 #BREATHING
 BREATHING APPARATUS
 BREEDER REACTORS
 BRICKS
 BRIDGES (STRUCTURES)
 BROMINATED EPOXY RESINS
 BROMINATION
 BROMINE
 BROMINE COMPOUNDS
 BROMOCHLORODIFLUOROMETHANE
 SA HALON 1211
 •BROMOCHLOROMETHANE
 USE CHLOROBROMOMETHANE
 SA HALON 1011
 BROMOCHLOROTRIFLUOROETHANE
 SA HALOTHANE
 BROMOETHANE
 BROMOFORM
 BROMOMETHANES
 BROMOTRIFLUOROMETHANE
 SA HALON 1301
 BROWIAN MOTION
 BRUSH FIRES
 BS 229
 BS 476
 BS 3116
 BS 4735
 BS 5852 PART 2
 •BTM
 USE BROMOTRIFLUOROMETHANE
 SA HALON 1301

BUBBLES
 #BUDGETS
 •BUILDING
 USE CONSTRUCTION
 BUILDING BOARDS
 BUILDING CODES
 BUILDING COLLAPSE
 BUILDING CONSTRUCTION
 BUILDING DESIGN
 BUILDING FIRES
 BUILDING MANAGEMENT
 BUILDING MATERIALS
 SA CONSTRUCTION MATERIALS
 INTERIOR FINISHES
 BUILDING PAPERS
 #BUILDINGS
 BULK HANDLING
 BULK STORAGE
 BULKHEADS
 BUOYANCY
 BUOYANT FLOW
 BUOYANT PLUMES
 •BURN INJURIES
 USE BURNS (INJURIES)
 BURN THERAPY
 BURNERS
 •BURNING
 USE COMBUSTION
 •BURNING INHIBITION
 USE COMBUSTION INHIBITION
 •BURNING PROCESS
 USE COMBUSTION
 BURNING RATE

BURNING TIME

BURNING VELOCITY

BURNOUT

BURNS (INJURIES)

BURNTHROUGH (FAILURE)

BURSTING

BUSES

BUTADIENE

BUTANES

BUTENES

BUTLER CHIMNEY TEST

BUTYL ALCOHOL

C

C-5 AIRCRAFT	CAPACITANCE
C-46 AIRCRAFT	CAPACITANCE SPARKS
C-82 AIRCRAFT	CAPACITORS
C-97 AIRCRAFT	CAPILLARY FLOW
C-130 AIRCRAFT	CARBIDES
C-131 AIRCRAFT	CARBOHYDRATES
C-135 AIRCRAFT	CARBON
C-141 AIRCRAFT	CARBON BALANCE METHOD
CABIN ATMOSPHERES	CARBON COMPOUNDS
#CABINS	•CARBON DEPOSITS USE COMBUSTION DEPOSITS
CABLE TRAYS	CARBON DIOXIDE
CABLES	CARBON DIOXIDE LASER IGNITION
CALCIUM	CARBON DISULFIDE
CALCIUM BORATES	CARBON MONOXIDE
CALCIUM CARBONATE	CARBON SULFIDES
CALCIUM OXIDES	CARBON TETRABROMIDE
CALCIUM SILICATE	CARBON TETRACHLORIDE
•CALCULATING USE COMPUTATION	CARBON TETRAFLUORIDE
•CALCULATION USE COMPUTATION	CARBON 13
CALCULATORS	CARBONACEIOUS SMOKE
CALIBRATING	CARBONIZATION
CALIFORNIA TECHNICAL BULLETIN 133	CARBONYL COMPOUNDS
CALORIMETERS	CARBOXYHEMOGLOBIN
CALORIMETRY	CARBOXYLIC ACIDS
CAMERAS	CARBURETORS
CANDLES	CARD GAP TEST
	CARDIAC EFFECTS

CARGO SHIPS	•CELLULOSICS
CARGO SPACE	USE CELLULOSIC MATERIALS
CARPET UNDERLAYS	CEMENTS
CARPETS	CENTRAL NERVOUS SYSTEM
#CARRIERS	CENTRIFUGAL PUMPS
#CARS	CENTRIFUGES
CASE BONDED PROPELLANTS	CERAMIC COATINGS
CASE HISTORIES	CERAMIC NUCLEAR FUELS
•CASE STUDY	CERAMICS
USE CASE HISTORIES	CEREBRAL PALSY
CASUALTIES	CERTIFICATION
CATALOGING	CFD MODELS
CATALYSIS	CH-47 HELICOPTER
CATALYSTS	•CHAIN BRANCHING
CATALYTIC COMBUSTION	USE BRANCHED CHAIN REACTIONS
CATALYTIC OXIDATION	CHAIN BREAKING
•CAVITATION	CHAIN CARRIERS
USE CAVITATION FLOW	CHAIN INITIATION
CAVITATION FLOW	CHAIN REACTIONS
CEILING HEIGHT	CHAIRS
CEILING JETS	#CHAMBERS
CEILING VENTS	CHANNEL FIRE TEST
CEILINGS	CHAPMAN-JOUGET FLAME
CELLULAR MATERIALS	CHAPMAN-JOUGET THEORY
CELLULAR PLASTICS	CHAR
CELLULAR STRUCTURE	CHAR DEPTH
CELLULOSE ACETATE	CHAR FORMATION
CELLULOSE NITRATE	CHAR LENGTH
CELLULOSE	CHAR STRENGTH
CELLULOSIC FUELS	CHARACTERIZATION
CELLULOSIC MATERIALS	CHARCOAL FILTERS

CHARGED PARTICLES

#CHARGES

CHARRING

CHARTS

CHBA (GELLING AGENT)

CHECK VALVES

CHEMICAL AGENTS

CHEMICAL ANALYSIS

CHEMICAL BONDS

CHEMICAL BURNS

CHEMICAL CHAIN REACTIONS

CHEMICAL COMPOSITION

CHEMICAL ENGINEERING

CHEMICAL EQUILIBRIUM

CHEMICAL EXPLOSIONS

•CHEMICAL EXTINGUISHERS
USE FIRE EXTINGUISHERS

CHEMICAL FIRE FIGHTING

CHEMICAL FIXATION

CHEMICAL FOAMS

CHEMICAL INHIBITION

•CHEMICAL KINETICS
USE REACTION KINETICS

CHEMICAL MIXING

CHEMICAL PLANTS

CHEMICAL PROPERTIES

#CHEMICAL REACTIONS

CHEMICAL REACTORS

CHEMICAL SPILLS

CHEMICAL STABILITY

CHEMICAL WARFARE

CHEMILUMINESCENCE

CHEMISORPTION

#CHEMISTRY

CHEMONUCLEAR PROPULSION

CHEMOTHERAPY

CHEMOX (TRADENAME)

CHILDREN

RT FEMALES

HUMAN BEINGS

MALES

CHILDRENS DRESSES

CHILDRENS SLEEPWEAR

•CHIMNEY EFFECTS
USE STACK EFFECT

CHIMNEYS

CHIPBOARD

CHLORIDES

CHLORIDE SALTS

CHLORINATION

CHLORINE

CHLORINE COMPOUNDS

CHLORINE DIOXIDE

CHLORINE FLUORIDES

CHLORINE OXIDES

CHLORIORETINAL BURNS

CHLOROBROMETHANE
SA HALON 1011

CHLOROFORM

•CHLOROMETHANE
USE METHYL CHLORIDES

CHLOROPENTAFLUOROETHANE
SA HALON 251

CHLOROPRENE

CHLOROSULFONIC ACID	CLOSED ECOLOGICAL SYSTEMS
CHLOROTRIFLUOROETHYLENE	CLOSED LOOP BREATHING APPARATUS
CHROMATOGRAPHY	•CLOTH USE FABRICS
•CHRONOLOGY USE HISTORIES	CLOTHES DRYERS
CIGARETTE TEST METHOD	CLOTHING
CIGARETTES	CLOTHING BURNS
CINDERS	CLOTHING FIRES
CINEMATOGRAPHY	CLOUD INTERACTIONS
CIRCUIT BREAKERS	CLOUD PROCESSING
CIRCUIT PROTECTION	COAGULATION
#CIRCUITS	COAL
CIRCULAR CYLINDERS	COAL DUSTS
CIRCULATION	COAL MINES
CIRCULATORY SYSTEM	COAL STORAGE
CIVIL DEFENSE	COAL TAR DISTILLATES
CIVIL DISTURBANCES	•COATED ABRASIVES USE ABRASIVES
CIVIL TRANSPORT	•COATING MATERIALS USE COATINGS
CLADDING	COATING PROCESSES
CLASS A FIRES	•COATING TYPES USE COATINGS
CLASS B FIRES	COATINGS
CLASS C FIRES	COAXIAL CABLES
CLASS D FIRES	COBALT ALLOYS
#CLASSIFICATIONS	CODE EQUIVALENCY
CLATHRATES	
CLEAN ROOM FIRES	
•CLEAN-UP USE CLEANING	
CLEANING	
CLEANING AGENTS	
CLIMATE	

CODES

NT NFPA 13
NFPA 14
NFPA 19A
NFPA 19B
NFPA 72
NFPA 72E
NFPA 74
NFPA 101
NFPA 251
NFPA 501B
SA STANDARDS

CODING

#COEFFICIENTS

COGNITION

COHESION

COLD SURFACES

COLD WIRES

•COLLEGES
USE UNIVERSITIES

COLLISION AVOIDANCE

#COLLISIONS

COLLOIDAL PROPELLANTS

COLLOIDS

COLOR

COLOR NOMEX FABRICS

COLUMNS

COMBUSTIBILITY

COMBUSTIBLE LIQUIDS

COMBUSTIBLE MATERIALS
SA FLAMMABLE MATERIALS

COMBUSTIBLE SOLIDS
SA FLAMMABLE SOLIDS

COMBUSTIBLE SYSTEMS

COMBUSTIBLES

COMBUSTION

COMBUSTION AEROSOLS

COMBUSTION CHAMBERS

•COMBUSTION CHARACTERISTICS
USE COMBUSTION

COMBUSTION CHEMISTRY

COMBUSTION CONTROL

COMBUSTION DEPOSITS

COMBUSTION EFFICIENCY

COMBUSTION ENGINES

COMBUSTION GASES

•COMBUSTION HEAT
USE HEAT OF COMBUSTION

COMBUSTION INHIBITION

COMBUSTION INHIBITORS

•COMBUSTION INSTABILITY
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2. The second part of the report is a detailed description of the methods used.

3. The third part of the report is a discussion of the results obtained.

4. The fourth part of the report is a conclusion.

5. The fifth part of the report is a list of references.

6. The sixth part of the report is a list of figures.

7. The seventh part of the report is a list of tables.

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 •PURPLE K POWDER
 USE PURPLE K
 •PVC
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PYRENE G-1 POWDER
 PYRIDINES
 PYRIMIDINES
 PYRODOME (TRADE NAME)
 •PYROELECTRIC COEFFICIENT
 USE PYROELECTRICITY
 PYROELECTRICITY
 PYROHYDROLYSIS
 PYROLYSIS
 •PYROLYSIS HEAT
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 PYROLYSIS MODELS
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 PYROLYSIS RATE
 •PYROLYSIS REACTIONS
 USE PYROLYSIS
 PYROLYSIS TEMPERATURE
 PYROLYTIC GRAPHITE
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 PYROMETALLURGY
 PYROMETERS
 •PYROMETRY
 USE TEMPERATURE MEASUREMENT
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QUANTITATIVE FIT TEST

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#RADIATION ABSORPTION

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RADIATION DETECTORS

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RAYLEIGH NUMBER	•REFLECTIVITY USE REFLECTANCE
RAYON	REFLECTOMETERS
REACTION KINETICS	REFRACTIVE INDEX SA REFRACTIVITY
•REACTION MECHANISMS USE REACTION KINETICS	REFRACTIVITY
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REACTION RATE	REFRACTORY COATINGS
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#REACTIONS	REFRIGERATION
•REACTOR SAFETY USE NUCLEAR REACTOR SAFETY	REFUELING
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RESEARCH FACILITIES

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•ROOFING MATERIALS
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SAFETY	SCALDS
SAFETY CHECKLISTS	SCALE (CORROSION)
SAFETY DEVICES	SCALE EFFECT
SAFETY ENGINEERING	SCALE MODELS
SAFETY EVALUATION	SCALE (RATIO)
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SAFETY FUELS	SCALING
•SAFETY HAZARDS USE HAZARDS	SCALING LAWS
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•SAFETY RULES USE SAFETY STANDARDS	SCENARIOS
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SAND	SEALS
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SILICON CARBIDES	SMOG
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SILICON OXIDES	SMOKE BALANCE
SILICON RUBBER	SMOKE BARRIERS
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SMOKE MOVEMENT

SMOKE OPACITY

SMOKE PARTITIONS

SMOKE PLUMES

SMOKE POINTS

SMOKE PRODUCTION

SMOKE RETARDANTS

SMOKE SAMPLING

SMOKE TRANSPORT

SMOKE VENTS

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•SMOKESTACKS
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SMOLDERING COMBUSTION

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SODIUM

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SODIUM CHLORATE

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SODIUM FIRES

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SOLAR RADIATION

SOLID FUELS

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•SOLID PROPELLANT RESTRICTORS
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SOLID PROPELLANTS

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SOLID ROCKET PROPELLANTS

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•SOLUTION HEAT
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SPACE DEBRIS

•SPACE ENVIRONMENT
USE AEROSPACE ENVIRONMENTS

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•SPACE MEDICINE
USE AEROSPACE MEDICINE

SPACE MISSIONS

SPACE SHUTTLE

SPACE SIMULATORS

SPACE STATIONS

SPACE SUITS

•SPACE SURVIVAL
USE SURVIVAL IN SPACE

•SPACE SYSTEMS ENGINEERING
USE AEROSPACE ENGINEERING

•SPACE VEHICLES
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SPACECRAFT

SPACECRAFT ACCIDENTS

SPACECRAFT CABIN ATMOSPHERES

SPACECRAFT COMPONENTS

SPACECRAFT ELECTRONIC EQUIPMENT

SPACECRAFT ENVIRONMENTS

SPACECRAFT FIRES

SPACECRAFT MATERIALS

SPACECRAFT MODELS

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SPACECRAFT SHIELDING

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•SPARK DISCHARGES
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•SPARKS (ELECTRIC)
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SPRAY DRY CURE PROCESS

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SPRAY SPRINKLERS

SPRAYERS

SPRAYING

SPRAYS

SPRINKLER DEFLECTORS

SPRINKLER HEADS

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SPRINKLER SYSTEMS

SPRINKLERS
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STOICHIOMETRIC MIXTURES	USE INVESTIGATIONS
#STORAGE	STYRENES
•STORAGE BUILDINGS	STYROFOAM (TRADEMARK)
USE STORAGE AND WAREHOUSES	SUBCRITICAL PRESSURES
STORAGE LIFE	SUBCRITICAL TEMPERATURES
STORAGE RACKS	SUBLIMATION
STORAGE STABILITY	•SUBLIMATION HEAT
STORAGE TANKS	USE HEAT OF SUBLIMATION
STORMS	SUBMARINE ACCIDENTS
STOVES	SUBMARINE ATMOSPHERE
STRATIFICATION	SUBMARINE FIRES
STRATIFIED FLOW	SUBMARINE SIMULATORS
STREAK PHOTOGRAPHY	SUBMARINES
#STRESS	SUBSTRATES
STRESS (MECHANICS)	SUBWAYS
STRESS (PHYSIOLOGY)	RT TUNNELS
STRESS (PSYCHOLOGY)	SUGARS
STRETCHERS	SULFATE ESTERS
STRONG DETONATIONS	SULFONATES
STRUCTURAL DESIGN	SULFUR
STRUCTURAL ENGINEERING	SULFUR COMPOUNDS
STRUCTURAL FAILURE	SULFUR DIOXIDE
•STRUCTURAL MATERIALS	SULFUR HEXAFLUORIDE
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STRUCTURAL STABILITY	•SUPERALLOYS
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•SURFACE COATING
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SURFACE COOLING

SURFACE EFFECTS

•SURFACE EROSION
USE EROSION

SURFACE FIRES

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RT IGNITION

•SURFACE PRESSURE
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SURFACE PROPERTIES

SURFACE TEMPERATURE

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SYNERGISTIC EFFECTS

SYNTHETIC FABRICS

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•SYSTEMS DESIGN
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SYSTEMS ENGINEERING

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USE TAG CUP METHOD

TAG CUP METHOD

- TAG OPEN CUP METHOD
USE TAG CUP METHOD

- TAGLIABUE CUP METHOD
USE TAG CUP METHOD

TAGUCHI GAS SENSOR (TRADEMARK)

TALC

- TALL BUILDINGS
USE HIGH RISE BUILDINGS

TANK FAILURES

TANK FIRES

TANK TRUCKS

TANKER SHIPS

TANKS (CONTAINERS)

TARS

- TB-25N AIRCRAFT
USE B-25 AIRCRAFT 20

- TBPP
USE TRI(DIBROMOPROPYL)PHOSPHATE

TEAR STRENGTH

- TEC POWDER
USE TERNARY EUTECTIC CHLORIDE
POWDER

- TECHNOLOGICAL SURVEYS
USE TECHNOLOGY SURVEYS

TECHNOLOGY ASSESSMENT

TECHNOLOGY SURVEYS

TECHNOLOGY TRANSFER

TECHNOLOGY UTILIZATION

- TECOM
USE SMOKE BALANCE

- TEF POWDER
USE TERNARY EUTECTIC FLUORIDE
POWDER

TEFLON (TRADEMARK)

TELECOMMUNICATIONS

TELEPHONES

TELESMOKE (TRADEMARK)

TELEVISION

TEMPERATURE

TEMPERATURE CONTROL

TEMPERATURE CORRELATIONS

- TEMPERATURE DETERMINATION
USE TEMPERATURE MEASUREMENTS

TEMPERATURE DIFFERENCES

TEMPERATURE DISTRIBUTION

TEMPERATURE EFFECTS

TEMPERATURE FIELD

TEMPERATURE FLUCTUATIONS

TEMPERATURE GRADIENTS

- TEMPERATURE INDICATORS
USE INDICATING INSTRUMENTS AND
TEMPERATURE MEASURING
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TEMPERATURE INVERSIONS

TEMPERATURE MEASUREMENTS

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TENSILE STRENGTH	TEXTILES
TENTS	TFE/H (TRADEMARK)
•TEOM USE SMOKE BALANCE	THATCH
TERMINAL FACILITIES	THERAPY
TERMINAL VELOCITY	THERMAL ANALYSIS
TERNARY EUTECTIC CHLORIDE POWDER	THERMAL BURNS
TERNARY EUTECTIC FLUORIDE POWDER	•THERMAL CONDUCTION USE CONDUCTION AND HEAT TRANSMISSION
TERPHENYL	THERMAL CONDUCTIVITY
TEST CHAMBER FIRES	THERMAL CONDUCTIVITY DETECTORS
TEST CHAMBERS	THERMAL CONVECTION
#TEST EQUIPMENT	THERMAL CRACKING (CHEMISTRY)
TEST FACILITIES	THERMAL DECOMPOSITION
TEST FIRES	THERMAL DEGRADATION
TEST METHODS	•THERMAL DETECTORS USE HEAT DETECTORS
•TEST PROGRAMS USE TESTS	THERMAL DIFFUSION
•TESTERS USE TEST EQUIPMENT	THERMAL DIFFUSIVITY
•TESTING USE TESTS	THERMAL DISSOCIATION
•TESTING CENTERS USE TEST FACILITIES	•THERMAL EFFECTS USE TEMPERATURE EFFECTS
#TESTS	THERMAL EMISSION
TETRACHLOROETHYLENE	THERMAL ENERGY
TETRAFLUORIDE	THERMAL EQUILIBRIUM
TETRAFLUOROETHYLENE	THERMAL EXPLOSIONS
TETRAFLUOROHYDRAZINE	•THERMAL GRAVIMETRIC ANALYSIS USE THERMOGRAVIMETRIC ANALYSIS
TETRAFLUOROMETHANE	THERMAL IGNITION

THERMAL INERTIA	THERMOLIN 101 (TRADEMARK)
THERMAL INSTABILITY	•THERMOMECHANICS USE THERMODYNAMICS
THERMAL INSULATION	THERMOMETERS
THERMAL OXIDATION	THERMOOXIDATION
THERMAL OXIDATIVE DEGRADATION	THERMOPHYSICAL PROPERTIES
THERMAL PROPERTIES	•THERMOPHYSICS USE THERMODYNAMICS
THERMAL PROTECTION	THERMOPILES
THERMAL RADIATION	THERMOPLASTIC FABRICS
THERMAL REACTIONS	•THERMOPLASTIC RESINS USE THERMOPLASTICS
THERMAL RESISTANCE	THERMOPLASTICS
THERMAL RESISTIVITY	THERMOSETTING RESINS
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THERMAL STABILITY	•THERMOVOLATILIZATION ANALYSIS USE THERMAL VOLATILIZATION ANALYSIS
THERMAL STRESSES	THICKENERS (MATERIALS)
THERMAL TRANSIENTS	THICKNESS
THERMAL VOLATILIZATION ANALYSIS	THIN FILM PYROMETRY
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THERMATIC (TRADEMARK)	THIOPLASTICS
THERMIONIC EMISSION	•THIXOTROPIC PROPELLANTS USE GELLED ROCKET PROPELLANTS
THERMISTORS	THOMAS DOMES
THERMOCHEMISTRY	THPC
THERMOCOUPLES	THPOH
THERMODYNAMIC PROPERTIES	THRESHOLD DETECTORS (DOSIMETERS)
THERMODYNAMICS	THYMINE PHENOL
THERMOELASTICITY	TIMBER
THERMOELECTRIC GENERATORS	•TIMBER STRUCTURES USE WOODEN STRUCTURES
THERMOGRAMS	
THERMOGRAVIMETRIC ANALYSIS	
THERMOGRAVIMETRY	

TIME	TRAINING DEVICES
TIME CONSTANT	TRAINING MANUALS
•TIME DELAY USE TIME LAG	TRAINING SIMULATORS
TIME ESTIMATION	TRANSDUCERS
TIME LAG	#TRANSFER
TIME MEASUREMENT	•TRANSFORMATION HEAT USE HEAT OF TRANSFORMATION
TIME PREDICTION	TRANSFORMERS
TIN	TRANSMISSION
TIN OXIDES	TRANSMISSIVITY
TITANIUM	TRANSPIRATION
TITANIUM ALLOYS	TRANSPORT AIRCRAFT
TITANIUM COMPOUNDS	TRANSPORT EQUATION
TOLERANCES (MECHANICS)	TRANSPORT PROCESSES
TOLERANCES (PHYSIOLOGY)	TRANSPORT PROPERTIES
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TOPOGRAPHY	TRASH
TORCH FLAME TESTS	#TREATMENT
TOXIC GASES	TRENDS
TOXIC HAZARDS	TRI FLAMMABILITY ANALYZER
TOXIC PRODUCTS	TRIALLYL PHOSPHATE
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TRACERS	TRICRESYLPHOSPHATE
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TRAINING	
TRAINING AIRCRAFT	

TRIFLUOROPROPYLENE	TURNOUT COATS
TRIMETHOXYBOROXINE	TWISTED WIRE LINE DETECTORS
TRIMETHYL PHENOL	BT LINE DETECTORS
TRIMOLECULAR REACTIONS	TWO STAGE IGNITION
TRIPLE BASE ROCKET PROPELLANTS	
TRIS(DIPHENYLAMINOMETHYL)PHOSPH.	
TRIS(HYDROXYMETHYL)PHOSPHINE	
TRUCKS	
TUNNEL FURNACES	
TUNNEL TESTS	
TUNNELS	
TURBINE ENGINES	
TURBINES	
TURBOFAN ENGINES	
TURBOJET ENGINES	
TURBOPROP ENGINES	
TURBULENCE	
TURBULENT BURNING	
TURBULENT BURNING VELOCITY	
TURBULENT COMBUSTION	
TURBULENT CONVECTION	
TURBULENT FLAMES	
TURBULENT FLOW	
TURBULENT FREE FLAMES	
USE TURBULENT FLAMES	
TURBULENT HEAT TRANSFER	
TURBULENT JET FLAMES	
TURBULENT JETS	
TURBULENT MIXING	
TURKEY	

U

UH-1 HELICOPTER

UL 94

UL STANDARDS
BT STANDARDS

ULLAGE

ULTRASONICS

ULTRAVIOLET ABSORPTION

ULTRAVIOLET DETECTORS

ULTRAVIOLET INHIBITORS

ULTRAVIOLET RADIATION

•ULTRAVIOLET SENSORS
USE ULTRAVIOLET DETECTORS

ULTRAVIOLET SPECTROSCOPY

UNDECANES

UNDERGROUND EXPLOSIONS

UNDERGROUND STORAGE

•UNDERLAYMENTS
USE CARPET UNDERLAYS

UNDERVENTILATED COMBUSTION

UNDERWATER CHAMBERS

UNDERWATER EXPLOSIONS

UNIMOLECULAR DECOMPOSITION

UNIMOLECULAR REACTIONS

UNIVERSITIES

UNSATURATED POLYESTER RESINS

UNSTABLE BURNING

UNSTEADY FLOWS

UNSYMMETRICAL DIMETHYLHYDRAZINE
SA AEROZINE 50

UNZIPPING

UPHOLSTERED FURNITURE

UPHOLSTERY

UPRIGHT SPRINKLERS

URANIUM

URBAN FIRES

UREA FORMALDEHYDE RESINE

UREA FORMALDEHYDES

UREAS

URETHANES



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V

VACUUM CHAMBERS	VENTILATION SYSTEMS
VACUUM EFFECTS	VENTING
VACUUM PUMPS	VENTS
VALIDATION	VEREL (TRADEMARK)
VALVES	VERIFICATION ACCEPTANCE
VAN DER WAALS FORCES	VERIFICATION INSPECTION
VANGUARD (TRADEMARK)	VERMICULITE
VAPOR DETECTION	VERTICAL PARALLEL PLATES
VAPOR PHASES	VERTICAL TESTS
VAPOR PRESSURE	VIBRATING FLAMES
VAPOR RATE	VIBRATION
VAPORIZATION	VINYL ACETATES
•VAPORIZATION HEAT USE HEAT OF VAPORIZATION	VINYL CHLORIDE
VAPORIZING LIQUIDS	VINYL FLOORING
VAPORS	VINYL PLASTICS
#VEHICLES	VINYL POLYMERS
VELCRO	VINYL RESINS
VELOCITY	VINYLLITE (TRADEMARK)
VELOCITY CORRELATIONS	VIRIAL COEFFICIENT
VELOCITY DISTRIBUTION	VISOELASTICITY
VELOCITY MEASUREMENT	VISCOSE
•VELOCITY PROFILES USE VELOCITY DISTRIBUTION	VISCOSE SOLUTION
•VENTILATING USE VENTILATION	VISCOSITY
•VENTILATING DUCTS USE VENTILATION	VISCOUNT AIRCRAFT
VENTILATION	VISCOUS FLOW
	VISIBILITY
	VISUAL INSPECTION

VITIATION

VITON

VOID SPACES

VOIDING CONCEPT

VOLATILITY

•VOLTAGE

USE ELECTRIC POTENTIAL

VOLTAGE SPIKES

VOLUME

VORTEX PAIRS

VORTEX RINGS

VORTEX SHEDDING

VORTEX STRENGTH

VORTICITY

VSTOL AIRCRAFT

W

WAKEFULNESS

WALL COVERINGS

WALL FINISHES

WALL FIRES

WALL LININGS

WALL PRESSURE

WALL TEMPERATURE

WALLBOARD

WALLPAPER

WALLS

WAREHOUSES

•WAREHOUSING
USE STORAGE AND WAREHOUSES

WARM AIR HEATING

•WARNING DEVICES
USE WARNING SYSTEMS

•WARNING INDICATORS
USE WARNING SYSTEMS

WARNING SYSTEMS

WASTE DISPOSAL

WATER

WATER CURTAINS

WATER DAMAGE

WATER DISTRIBUTION

WATER FLOW

WATER FOG
SA WATER MIST

WATER INJECTION

•WATER JETS
USE HYDRAULIC JETS

WATER LOSS

WATER MIST
SA WATER FOG

WATER PRESSURE

WATER SERVICES

WATER SOLUBILITY

WATER SPRAYS

WATER STORAGE

WATER SUPPLY

WATER TANKS

WATER VAPOR

WATERPROOF COATINGS

WATERPROOFING

WAVE STRUCTURE

#WAVES

WEAR DETONATION

WEATHER EFFECTS

WEIGHT INDICATORS

WEIGHT LOSS

WEIGHT LOSS RATE

WEIGHTLESSNESS

WELDING

WELL FIRES

WET SPRINKLER SYSTEMS

•WET WATER
USE SLIPPERY WATER

WETTING

WETTING AGENTS

WHIFFLE BALLS

WHISKER COMPOSITES

WICKS

WILDLAND FIRES

WIND DIRECTION

WIND EFFECTS

- WIND SPEED
USE WIND VELOCITY

WIND TUNNELS

WIND VELOCITY

WINDOWS

WIRES

- WIRING
USE WIRES

- WOMEN
USE FEMALES

WOOD

WOOD PRESERVATIVES

WOODEN STRUCTURES

WOOL

WOOL FABRICS

- WORKSHOPS
USE CONFERENCES

WOVEN FABRICS

WRECKAGE

X

X-400 (FABRICS)

X RAY DIFFRACTION

X RAY FLUORESCOPE

X RAY INSPECTION

X RAY SPECTROSCOPY

XB-70 AIRCRAFT

XENON

•XP2 CHAMBER TEST

USE ROHM AND HAAS XP2 SMOKE
DENSITY TEST

XYLENE

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Y

YARD HYDRANTS

•YELLOWING
USE DISCOLORATION

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Z

•ZERO GRAVITY
USE WEIGHTLESSNESS

ZINC

ZINC BORATES

ZINC CHLORIDES

ZINC OXIDES

ZIP LENGTH

ZIRCONIUM

ZONE MODELS

#ZONES

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